**Biochemistry Review Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pd #\_\_\_**

1. Explain the difference between organic and inorganic compounds.

2. What are some examples of inorganic compounds found in living things.

3. What type of ions do acids release in solution? What type of ions do bases release in

solution?

4. Give the appropriate pH value of each body solution below:

1. Urine: \_\_\_\_\_
2. Blood: \_\_\_\_\_
3. Saliva: \_\_\_\_\_
4. Semen: \_\_\_\_

5. How much more acidic is urine compared to blood?

6. How does a buffer system help maintain homeostasis?

7. Name four organic compounds found in living things.

8. Name three general categories of carbohydrates and provide examples of each.

9. Draw the structure of glucose below:

10. Glucose, galactose, and fructose are isomers explain what this means.

11. What is the major function of a carbohydrate?

12. Name the general types of lipids found in the body.

13. What is the function of a triglyceride? Where are they found within the human body?

14. Where are phospholipids found in the human body?

15. How does the structure of a triglyceride and phospholipid compare?

16. Name some examples of lipid steroids.

17. What are eicosanoids? Name three examples of eicosanoids and describe the function of

each.